#### **@ BELLSOUTH**

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October 25, 1999 36T 25

#### VIA HAND DELIVERY

David Waddell, Executive Secretary Tennessee Regulatory Authority 460 James Robertson Parkway Nashville, TN 37238

Re:

Petition for Arbitration of ITC^DeltaCom Communications, Inc. with BellSouth Telecommunications, Inc. pursuant to the Telecommunications Act of 1996 Docket No. 99-00430

Dear Mr. Waddell:

Enclosed are the original and thirteen copies of rebuttal testimony on behalf of BellSouth Telecommunications, Inc.:

> David A. Coon Keith Milner Alphonso J. Varner William Taylor Ronald M. Pate Daonne Caldwell

Copies of the enclosed are being provided to counsel of record for all parties.

Very truly yours,

Guy M. Hicks\_\_\_

GMH:ch Enclosure



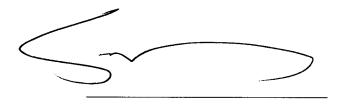
#### **CERTIFICATE OF SERVICE**

I hereby certify that on October 25, 1999, a copy of the foregoing document was served on the parties of record, via the method indicated:

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RECOUNTY THE

## BEFORE THE 139 907 25 PM 3 49 TENNESSEE REGULATORY AUTHORITY

EXECUTIVE DESILETARY

IN RE: PETITION FOR ARBITRATION OF ITC^DELTACOM COMMUNICATIONS, INC. WITH BELLSOUTH TELECOMMUNICATIONS, INC. PURSUANT TO THE TELECOMMUNICATIONS ACT OF 1996	DOCKET NO. 99-00430
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#### **REBUTTAL TESTIMONY**

**OF** 

WILLIAM E. TAYLOR, Ph.D.

ON BEHALF OF

BELLSOUTH TELECOMMUNICATIONS, INC.

**OCTOBER 25, 1999** 





#### REBUTTAL TESTIMONY OF WILLIAM E. TAYLOR, Ph.D.

#### **TABLE OF CONTENTS**

T.	INTRODUCTION AND SUMMARY	Page 1
••		1
II.	INTER-CARRIER COMPENSATION FOR ISP-BOUND CALLS	2
III.	CHARGES FOR OPERATIONS SUPPORT SYSTEMS	7
IV.	PERFORMANCE BENCHMARKS AND PENALTIES	16

## ON BEHALF OF BELLSOUTH TELECOMMUNICATIONS, INC. REBUTTAL TESTIMONY OF WILLIAM E. TAYLOR, Ph.D. BEFORE THE TENNESSEE REGULATORY AUTHORITY

#### **DOCKET NO. 99-00430**

#### **OCTOBER 25, 1999**

#### 1 I. INTRODUCTION AND SUMMARY

- 2 Q. PLEASE STATE YOUR NAME, BUSINESS ADDRESS, AND CURRENT
- 3 **POSITION.**
- 4 A. My name is William E. Taylor. I am Senior Vice President of National Economic
- Research Associates, Inc. ("NERA"), head of its Communications Practice, and head of its
- 6 Cambridge office located at One Main Street, Cambridge, Massachusetts 02142.

#### 7 Q. HAVE YOU FILED TESTIMONY PREVIOUSLY IN THIS PROCEEDING?

- 8 A. Yes, I filed direct testimony in this proceeding on October 15, 1999.
- 9 Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?
- 10 A. I have been asked by BellSouth Telecommunications, Inc. ("BellSouth")—an incumbent
- local exchange carrier ("ILEC")—to address economic and regulatory issues raised in this
- proceeding to arbitrate an interconnection agreement between BellSouth and
- 13 ITC^Deltacom Communications, Inc. ("ITC^DeltaCom")—a competitive local exchange
- carrier ("CLEC"). Specifically, I respond to testimony from ITC^DeltaCom witnesses Don
- J. Wood and Christopher J. Rozycki. The issues in question include: (1) reciprocal
- 16 compensation for traffic sent to Internet service providers ("ISPs"), (2) non-recurring
- 17 charges ("NRCs") for BellSouth's operations support systems ("OSS"), and (3)
- performance guarantees.



#### II. INTER-CARRIER COMPENSATION FOR ISP-BOUND CALLS

Issue 3(1): Should BellSouth be required to pay reciprocal compensation to ITC^DeltaCom for all calls that are properly routed over local trunks, including calls to Information Service Providers ("ISPs")?

#### O. HOW DOES YOUR POSITION ON INTER-CARRIER COMPENSATION FOR

#### ISP-BOUND TRAFFIC DIFFER FROM THAT OF ITC^DELTACOM

#### WITNESSES?

A. Contrary to the position of ITC^DeltaCom witnesses, my position is that reciprocal compensation should *not* be paid for ISP-bound calls. While reciprocal compensation is the proper form of inter-carrier compensation for local calls originated (on behalf of its customers) by one carrier and terminated (to its customers) by another carrier, it is *not* so if calls to Internet destinations originated by the first carrier are switched by the second carrier to an ISP which then routes those calls through the Internet's backbone network to their destination. Even though local calls and ISP-bound calls may *resemble* each other at a functional level, they are not the same in two fundamental respects: (1) the cost per minute to carry each type of call, on average, is not the same, and (2) the pattern of cost causation for the two types of calls is different and, therefore, requires different modes of cost recovery (compensation).

The Federal Communications Commission ("FCC") has ruled that ISP-bound calls are *jurisdictionally* mixed and mostly interstate.<sup>1</sup> As long as those calls are not local from a jurisdictional standpoint, they cannot be subject to reciprocal compensation, the form of inter-carrier compensation that applies to local traffic only. However, there is also a compelling *economic* basis for seeking an alternative form of inter-carrier compensation for ISP-bound calls. That is, even without the FCC's jurisdictional distinctions, one need only appreciate the incontrovertible fact that cost is caused differently for Internet traffic

<sup>&</sup>lt;sup>1</sup> FCC, In the Matter of Implementation of the Local Competition Provisions in the Telecommunications Act of 1996 and Inter-Carrier Compensation for ISP-Bound Traffic, CC Docket Nos. 96-98 and 99-68, Declaratory Ruling in CC Docket No. 96-98 and Notice of Proposed Rulemaking in CC Docket No. 99-68 ("Internet Traffic Order"), released February 26, 1999.



than for local traffic and, therefore, should be recovered differently. There is, in fact, a strong parallel between how cost is caused when an ILEC subscriber places a long distance call over the network of an inter-exchange carrier ("IXC") and the cost caused when that same subscriber places an Internet call over the network of an ISP. The salient fact is that the ISP is a carrier that facilitates access to the Internet just as the IXC facilitates long distance "access" to another telephone subscriber at a distant location. The ISP is (like the IXC) not an end-user of any local exchange carrier (such as a CLEC) that serves it. Therefore, just as the IXC compensates all local carriers for partial carriage of long distance calls through switched access charges, so too should the ISP compensate all local carriers (including both the ILEC and the CLEC) for partial carriage (within the circuitswitched network) of Internet calls through analogous charges. Under this model of compensation, the cost-causing Internet customer (who is also a subscriber of the ILEC) pays for the entire cost of the Internet call to the ISP that provides Internet access, and that ISP in turn compensates the ILEC and the CLEC for all costs incurred on the ISP's behalf. The proper form of inter-carrier compensation depends on how cost is caused, not on whether ISP-bound calls are functionally equivalent to local calls or whether they cost the same to carry. The greatest danger in failing to make this distinction is to create a set of perverse incentives under which the carrier receiving reciprocal compensation for ISPbound calls (e.g., the CLEC) finds it increasingly profitable to specialize in carrying only ISP-bound traffic. As regulators in Massachusetts have already recognized, this creates opportunities for uneconomic arbitrage and entry solely to serve ISPs and collect reciprocal compensation payments. As I indicated in my direct testimony, the result is a subsidy to Internet services and insufficient offerings of—and competition for—the full slate of local exchange services. The overall economic effect on society is, therefore, clearly detrimental. Q. MR. ROZYCKI STATES [AT 18] ITC^DELTACOM'S POSITION THAT

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- 27 RECIPROCAL COMPENSATION SHOULD BE CONTINUED TO BE PAID FOR
- 28 ISP-BOUND CALLS. DO YOU AGREE?

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A. No, for the two reasons mentioned above. ITC^DeltaCom's position on this issue is 29



- clearly inconsistent with the FCC's analysis of the jurisdictional status of ISP-bound calls.
- 2 More importantly, it is inconsistent with the fundamental economic principle that cost
- should be recovered from those who cause that cost: in the present instance,
- 4 ITC^DeltaCom should recover its costs from the ISP it serves and, indirectly, that ISP's
- 5 customers who are the true cost-causers.

#### 6 Q. IN YOUR DIRECT TESTIMONY [AT 8-9 AND FIGURE 1], YOU EXPLAINED

- 7 WHY ITC^DELTACOM'S VIEW THAT ISP-BOUND CALLS ARE ALL
- 8 JURISDICTIONALLY LOCAL IS ERRONEOUS. PLEASE INDICATE HOW
- 9 THIS ERRONEOUS VIEW IS MANIFEST IN MR. ROZYCKI'S TESTIMONY.
- A. In my direct testimony, I explained that ITC^DeltaCom's erroneous view of inter-carrier compensation for ISP-bound calls is based on two crucial assumptions.
- 12 1. The ILEC subscriber that calls the Internet is acting as a customer of the originating ILEC, even when the call goes through the ISP to which it pays monthly access fees.
  - 2. The ISP itself is an end-user (not a carrier) of the CLEC and the Internet call "terminates" at the ISP.
- These assumptions are epitomized by two assertions by Mr. Rozycki:
- BellSouth's proposal [about reciprocal compensation] discriminates ... [by denying] ... ITC^DeltaCom the ability to recover its costs for terminating local
- 19 calls for BellSouth.<sup>3</sup>
- 20 and

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- The ISP pays for its local phone line, just as any user or receiver of telephone calls.<sup>4</sup>
- The first statement confirms ITC^DeltaCom's view that the cost of an ISP-bound call made
- by the ILEC's subscriber must be recovered from the ILEC. The second statement reflects
- 25 ITC^DeltaCom's view that an ISP is akin to all end-users. Mr. Rozycki also rules out [at
- 24] the recovery of any other cost associated with carriage of an ISP-bound call from the



<sup>&</sup>lt;sup>2</sup> Recall the distinction I made in my direct testimony [fn. 7] between a "subscriber" and a "customer" in order to show cost causation.

<sup>&</sup>lt;sup>3</sup> Direct testimony of Christopher J. Rozycki, at 18-19.

<sup>&</sup>lt;sup>4</sup> *Id.*, at 24.

1 ISP.

### Q. HOW DO YOU RESPOND TO MR. ROZYCKI'S BELIEF [AT 23-24] THAT THE CALLING PARTY SHOULD PAY FOR AN ISP-BOUND CALL?

- 4 A. I agree that the calling party (here, the ISP customer) should pay for the ISP-bound call.
- But that does not logically translate into the requirement that *BellSouth* (whose subscriber
- 6 happens to be the ISP's customer) should pay part or all of the cost of that call. Instead,
- from the cost-causative standpoint explained above, the ISP itself and its customer (the true
- 8 calling party) should pay all facilitating carriers (the ILEC and the CLEC alike) for the ISP-
- bound call. This is exactly the situation when the ILEC's subscriber makes a long distance
- call. The costs incurred by ILECs and/or CLECs to carry that call to and from the IXC's
- network are recovered from the IXC and its long distance customer, not from the carriers
- that provide access.

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### Q. IS MR. ROZYCKI CONSISTENT IN HIS OWN VIEW ABOUT REQUIRING THE CALLING PARTY TO PAY?

- A. Ironically, no. Mr. Rozycki draws a parallel [at 24] between long distance calls and Internet calls, and concludes that each carrier facilitating the carriage of those calls should
- be compensated. For example, Mr. Rozycki states:
- Calls to the Internet are similar [to long distance calls] in that there are multiple
- parts to each Internet session. Assuming the call is initiated over standard phone
- lines, the initial part of the call, its delivery to the ... ISP, may be handled by one
- or more carriers. Each of these carriers plays a roll (sic) in delivering the call to
- its destination, and as such, each should be compensated. [emphasis added]
- This opinion reflects both ambivalence and a confused understanding of a "call." Mr.
- Rozycki appears to conclude, correctly in my opinion, that facilitating carriers should be
- compensated by those who cause costs. This would fit perfectly with the cost-causative
- view of compensation that I explained above. Nothing in his statement above, however,
- provides any logical reason to seek compensation *from* the ILEC (or BellSouth). Instead, it
- eloquently makes the case for payment to be made to the ILEC (or BellSouth). The rest of
- 29 Mr. Rozycki's testimony, however, does not square with this statement.
  - Mr. Rozycki's attempt to break a call down into its parts (based on which carrier is



1	conveying the call at any given point) may be useful for understanding the network
2	configuration that underlies the call, but it says nothing about how the cost of the call
3	should be recovered. Instead, understanding the parts helps primarily in determining which
4	carriers participate in the carriage of the call and would, therefore, need to be compensated.
5	For purposes of determining the full cost caused by the calling party, however, it is
6	necessary to view the call from end to end, rather than in its intermediate stages. That is
7	why the FCC declined to view the Internet call in terms of its parts. Instead, in reaching
8	the judgment that Internet calls are generally interstate in nature, the FCC viewed such
9	calls from end to end.

# Q. MR. ROZYCKI CLAIMS [AT 18] THAT "IN ESSENCE, BELLSOUTH HAS TOLD ITC^DELTACOM THAT [ITC^DELTACOM] MUST PROVIDE [BELLSOUTH] FREE USE OF [ITC^DELTACOM'S] NETWORK FOR ALL CALLS TO THE INTERNET." IS THIS TRUE?

- A. Absolutely not. Quite the contrary, BellSouth does not deny ITC^DeltaCom compensation for the costs it incurs to handle ISP-bound calls. Instead, BellSouth's position, correctly based on cost causation, is that the costs in question should be recovered from the ISP and, indirectly, the ISP customer, rather than from BellSouth or any other carrier facilitating ISP-bound calls.
- Q. MR. ROZYCKI CONCLUDES [AT 25] THAT BELLSOUTH'S REFUSAL TO
  "NEGOTIATE A FAIR PRICE" FOR THE HANDLING OF ISP-BOUND CALLS,
  IN EFFECT, HOLDS ITC DELTACOM HOSTAGE BECAUSE ANY FAILURE
  BY ITC DELTACOM TO CONTINUE CURRENT TERMS AND CONDITIONS
  TO THE ISPS IT SERVES WOULD "DRIVE" THOSE ISPS BACK TO
  BELLSOUTH. IS THAT CONCLUSION CORRECT?
- A. No. Mr. Rozycki's conclusion is based on the illusion that the current situation—in which
  BellSouth is paying reciprocal compensation to ITC^DeltaCom for ISP-bound calls—is
  economically efficient or socially desirable. Far from it, as I have explained, the payment
  of such compensation subsidizes Internet calling and distorts local exchange competition.



If the cessation of reciprocal compensation were to force ITC^DeltaCom and other CLECs 1 2 to provide their services to ISPs at cost-based, rather than subsidized, prices, then fair competition (for the business of ISPs) would be restored. CLECs that are thriving 3 currently on a reciprocal compensation-driven strategy of ISP-specialization would then 4 have to abandon those arbitrage opportunities and compete on fair and cost-based terms for 5 the full range of network services offered by an ILEC like BellSouth. Such an outcome 6 7 would clearly be in the public interest and consistent with the goals of the Telecommunications Act of 1996 ("1996 Act"). 8 CHARGES FOR OPERATIONS SUPPORT SYSTEMS 111. 9 Issue 2; 2(a)(iv); 2(b)(I) and 6(a) combined as follows: 10 11 (a) What is the definition of parity? (b) Pursuant to this definition, should BellSouth be required to provide the 12 following and if so, under what conditions and at what rates: 13 14 (1) Operational Support Systems ("OSS") (2) UNEs 15 16 (3) Access to Numbering resources (4) An unbundled loop using Integrated Digital Loop Carrier ("IDLC") 17 technology; and 18 19 (5) Priority guidelines for repair and maintenance and UNE provisioning? 20 21 Q. MR. WOOD DISTINGUISHES [AT 12-13] BETWEEN OSS DEVELOPMENT AND OSS USE COSTS. IS THERE A RELATIONSHIP BETWEEN THOSE COSTS, OR 22 23 ARE THEY TOTALLY INDEPENDENT? 24 A. As I explained in my direct testimony [at 27-28], even though the two costs are different in 25 nature, they may still be related through an important economic trade-off. The level of 26 technology embodied in an OSS is not fixed in the long run. OSS that employ more capital



but less labor tend to have higher OSS development and lower OSS use costs, and those

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- that employ less capital and more labor tend to have lower development and higher use costs. This inverse relationship between OSS development and OSS use costs is thus a product of the type of OSS installed.
- Q. MR. WOOD SUGGESTS [AT 12] THAT OSS DEVELOPMENT COSTS (WHICH HE LABELS "TRANSITION COSTS") MAY NOT BE RECOVERED BY
  BELLSOUTH FROM OSS-REQUESTING CARRIERS. HAS EITHER THE 1996
  ACT OR THE FCC LIMITED RECOVERY TO SOME, BUT NOT ALL, OSS-RELATED COSTS?
- A. No. The 1996 Act makes no specific mention of OSS. In its implementing rules, the FCC has declared that OSS be treated just like any UNE. The FCC has never specifically limited recovery to some, but not all, OSS-related costs. From this, I conclude that the FCC has intended all along that the provider of OSS should be able to recover *all* costs related to the development and use of OSS. As explained above, these costs include both one-time and ongoing costs.<sup>5</sup>
- Q. MR. WOOD FURTHER ASSERTS [AT 13] THAT OSS DEVELOPMENT COSTS
  ARISE FROM THE 1996 ACT'S REQUIREMENT THAT LOCAL EXCHANGE
  MARKETS BE OPENED TO COMPETITION AND SHOULD, THEREFORE,
  HAVE TO BE ABSORBED BY INCUMBENT CARRIERS LIKE BELLSOUTH.
  DO YOU AGREE?
- A. No. The notion proffered by Mr. Wood that by writing the Act, *Congress* caused OSS development costs is incorrect as a matter of regulatory economics. In telecommunications, regulatory bodies have frequently required regulated firms to undertake costly investments that are subsequently recovered from the customers who use the facilities. For example, when classified as a dominant firm, AT&T was required to maintain sufficient capacity to provide long distance service to any customer in the U.S. at

<sup>&</sup>lt;sup>5</sup> In its Interim Order in Docket No. 97-01262, the Authority permitted the recovery of OSS-related costs through a recurring rate assessed to all carriers (i.e., ILEC and CLEC alike). The Authority also ordered that all expenses associated with electronic interfaces be capitalized and recovered over the life of the OSS.



- geographically averaged rates. Arguably, some costs would be incurred even if no customer demand materialized. Nonetheless, AT&T's capacity costs were recovered—on a usage basis—in its retail prices charged to its own end-users, not from
- Q. DO YOU AGREE WITH MR. WOOD'S BELIEF [AT 13] THAT ANY EFFORT BY
  BELLSOUTH TO IMPROVE ITS OSS WILL EVENTUALLY IMPROVE ITS
  OWN EFFICIENCY AND BENEFIT ITS OWN CUSTOMERS?
- 8 A. No, I disagree with Mr. Wood's implication that BellSouth's customers will benefit from 9 OSS development requested by CLECs and that, therefore, the cost of such development ought to be absorbed by BellSouth. First, Mr. Wood ignores the fact that the OSS 10 development costs at issue here pertain solely to the interfaces and systems that BellSouth 11 has developed to serve CLECs like ITC^DeltaCom.6 Therefore, Mr. Wood errs in at least 12 13 three respects. First, he confuses OSS development costs to serve CLECs with those 14 BellSouth incurs to serve its own customers. Second, he ignores cost causation: even if BellSouth's customers were somehow to benefit—which they do not—from BellSouth's 15 16 development of OSS interfaces for ITC^DeltaCom or other CLECs, it would be improper to ignore the basic underlying fact that ITC^DeltaCom and other CLECs remain the cost 17 causers from whom cost should be recovered. Third, benefits are never the economically 18 proper basis for pricing or cost recovery. A price is charged to recover a cost, never to 19 "tax" a benefit. 20
- Q. DO YOU AGREE WITH MR. WOOD'S CONTENTION [AT 14 AND FN. 4] THAT
- 22 MAKING CLECS LIKE ITC^DELTACOM PAY FOR THEIR OWN OSS
- DEVELOPMENT AND USE COSTS AS WELL AS BELLSOUTH'S OSS COSTS
- 24 WOULD CONFER A SUBSTANTIAL COMPETITIVE ADVANTAGE ON
- 25 BELLSOUTH AND DISCOURAGE ANY LOCAL COMPETITION?
- A. No. If what Mr. Wood claims were true, then I would agree. But, as stated above, Mr.

telecommunications users in general.

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<sup>&</sup>lt;sup>6</sup> Direct testimony of Alphonso J. Varner in this proceeding.

Wood fails to distinguish between OSS-related costs (such as for interfaces and related systems) attributable to CLECs like ITC^DeltaCom and BellSouth's own OSS costs. This 2 failure alone invalidates his contention. In addition, Mr. Wood overlooks the fact that the OSS that BellSouth uses to serve its retail customers are already in place. BellSouth does not recover the costs associated with its own OSS by charges to other carriers, as it would—and should—for OSS-related costs caused by those other carriers. Instead, 6 BellSouth recovers its own OSS-related costs through its retail prices, and has been doing so all along.

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Contrary to Mr. Wood's view, making BellSouth pay for OSS development costs caused by CLECs would not only confer a substantial competitive advantage on the CLECs, it would encourage CLECs to demand OSS from BellSouth in excessive quality and quantity. As I explained earlier, because of the economic trade-off between OSS development costs and OSS use costs, this would allow CLECs to artificially lower their costs and would encourage entry by relatively inefficient competitors. Thus, society would be worse off under such an arrangement even as the CLECs are able to harness an unjustified private gain for themselves.

#### Q. SHOULD BELLSOUTH BE MADE TO RECOVER OSS DEVELOPMENT COSTS INCURRED ON BEHALF OF CLEC'S LIKE ITC DELTACOM FROM ITS OWN **RETAIL CUSTOMERS?**

- 20 A. No. In competitive markets, firms recover costs from the customers who cause the costs.
- 21 For example, AT&T, MCI WorldCom, and Sprint recover the OSS costs they incur to
- 22 serve resellers from the recurring and non-recurring prices they charge those resellers, not
- 23 from their retail customers. Were they to attempt to raise retail prices to subsidize their
- 24 wholesale customers, they would face two insurmountable problems:
- 1. a competitive handicap in the retail market because other equally efficient facilities-25 based carriers could underprice them, and 26
- 2. an inefficient margin between the prices of their resold services and of their retail 27 services such that an equally efficient reseller could underprice them. 28
- In any event, this issue is now moot in light of the Authority's acceptance of the principle 29 30 that OSS development costs should be recovered from OSS-requesting carriers.



1	Q.	DO YOU AGREE WITH MR. WOOD'S RECOMMENDATION [AT 16] THAT IN
2		ORDER TO ASSURE CLECS NON-DISCRIMINATORY ACCESS TO OSS, THE
3		OSS DEVELOPMENT COSTS SHOULD, AT THE VERY LEAST, BE
4		RECOVERED IN A "COMPETITIVELY NEUTRAL" MANNER FROM ALL
5		RETAIL CUSTOMERS, REGARDLESS OF THEIR LOCAL SERVICE
6		PROVIDER?
7	Δ	No. Mr. Wood begins by asserting—correctly, in my oninion—that competitively neutral

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No. Mr. Wood begins by asserting—correctly, in my opinion—that competitively neutral recovery of OSS development costs occurs when each carrier is held fully responsible for "its own OSS." Mr. Wood's assertion, however, is incomplete; I would add that each carrier should be responsible for the OSS costs (both development and use-related) that it causes. Under that principle, cost causation would be respected, and cost recovery would be economically efficient. However, in light of the general tenor of Mr. Wood's testimony, I interpret his assertion to mean that the OSS development costs incurred by BellSouth to serve ITC^DeltaCom's needs should be BellSouth's alone to bear. As I explained earlier, that is an unacceptable conclusion from the standpoint of standard economic theory. Were this Authority to decide that BellSouth's OSS development costs arising from having to serve ITC^DeltaCom (or other carriers) should not be recovered by BellSouth alone, Mr. Wood asks that those costs be recovered equally from every retail customer in the local service market.<sup>7</sup> In other words, Mr. Wood recommends the use of a surcharge on all local access lines (regardless of which carriers provide them) for recovery of the OSS development costs borne by BellSouth on behalf of ITC^DeltaCom and other carriers. This, too, is unacceptable from the standpoint of economic theory.

OSS development costs incurred on behalf of ITC^DeltaCom or other carriers is a fixed cost that must be recovered from the CLECs that caused them. Failure to do so would only create a subsidy for ITC^DeltaCom or other carriers, and the creation of any new subsidy would be bad public policy. The 1996 Act clearly intended to eliminate implicit subsidy flows and to extend competition into the local and long distance markets.

<sup>&</sup>lt;sup>7</sup> A similar view is expressed by Mr. Rozycki at page 14 of his testimony.



Competition that depends on a flow of subsidy to survive in a market is inefficient and not worth having, in the sense that Tennessee customers would not benefit from such competition in terms of price and service quality.

Nonetheless, even if it were (incorrectly) determined that any of the services provided to CLECs should be subsidized, funding that subsidy by a charge proportional to the number of lines served would not be competitively neutral. First, that would assign the bulk of the OSS development costs to BellSouth itself, at least in the early years of local competition when BellSouth would serve the overwhelming majority of local access lines in its service area and when those OSS development costs could be substantial. Second, any assessment on access lines would not be competitively neutral unless all competitors (incumbents and entrants alike) could pass that (per-line) charge through to customers on a flat-rated basis if they so chose. Only such flat-rate recovery would match the recovery of fixed costs and would ensure that all end-users pay the same fixed contribution toward the wholesale subsidy, regardless of the carrier from which they take their local service. Even then, the competitive playing field would not be level because BellSouth's wholesale OSS services would still be receiving a subsidy from BellSouth's retail customers, which would give an advantage to those CLECs that use BellSouth's OSS to compete against BellSouth's retail services.

If flat-rate recovery from end-users is also ruled out, then it would be more efficient to assess all carriers in proportion to their OSS *transactions* rather than in proportion to access lines because OSS transactions are more likely to be closely linked to the OSS costs in question. Customers that place no demands on OSS should not—to the extent possible—have to pay for OSS development and use costs.

- Q. MR. WOOD WORRIES [AT 9] THAT "EXCESSIVE OR UNNECESSARY NRCS
  INHERENTLY CONSTITUTE BARRIERS TO COMPETITION." IS HIS
  WORRY JUSTIFIED IN THE CONTEXT OF THE NRCs FILED BY BELLSOUTH
  IN THIS PROCEEDING TO RECOVER OSS-RELATED COSTS?
- A. No. While as a general proposition, I would agree with Mr. Wood that any "excessive or unnecessary" charge that raised a competitor's cost asymmetrically could constitute a



- barrier to entry, his application of that proposition to the context described is unjustified. 1
- 2 NRCs cannot be a barrier to entry as long as two fundamental principles are observed: (1)
- 3 the true cost causer is assessed the NRCs for the purpose of recovering costs caused
- directly by it, and (2) NRCs are set, as I discussed earlier, on the basis of a forward-looking 4
- pricing methodology. In the current context, NRCs should be assessed to ITC^DeltaCom 5
- and other OSS-requesting carriers on the basis of the forward-looking OSS development 6
- 7 and use costs caused by those carriers. Those NRCs would, of course, exclude OSS-related
- 8 costs arising from BellSouth's own needs for OSS to serve its retail customers.

#### 9 Q. MR. WOOD TAKES ISSUE [AT 10] WITH BELLSOUTH'S OSS COST STUDY

- BECAUSE IT ALLEGEDLY REFLECTS BELLSOUTH'S "EXISTING 10
- 11 SYSTEMS," WHICH, HE CLAIMS, PROVIDES NO INCENTIVE TO
- BELLSOUTH TO SUPPLY OSS CAPABILITIES "EFFICIENTLY AND IN A 12
- 13 NON-DISCRIMINATORY MANNER." DO YOU AGREE?
- A. No. Mr. Wood appears to be advocating the use of a hypothetical network (one BellSouth 14
- 15 is never likely to have or build toward) for the purpose of calculating forward-looking
- OSS-related costs. This is exactly the standard that the FCC rejected in explaining how 16
- 17 total element long run incremental cost ("TELRIC")—the forward-looking cost measure
- 18 for a UNE—should be estimated. First, the FCC noted:

19 [f]orward-looking cost methodologies, like TELRIC, are intended to consider 20

the costs that a carrier would incur in the future. Thus, a question arises whether

costs should be computed based on the least-cost, most efficient network

22 configuration and technology currently available, or whether forward-looking cost should be computed based on incumbent LECs' existing network 23

24 infrastructures ... The record indicates three general approaches to this issue.

25 Under the first approach, the forward-looking economic cost for ... unbundled

26 elements would be based on the most efficient network architecture, sizing,

technology, and operating decisions that are operationally feasible and currently

available to the industry.8 28

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The FCC, however, rejected this standard because: 29



<sup>&</sup>lt;sup>8</sup> Local Competition Order, ¶683.

this approach may ... discourage facilities-based competition by new entrants because new entrants can use the incumbent LEC's existing network based on the cost of a hypothetical least-cost, most efficient network.<sup>9</sup>

Instead, the FCC adopted a third approach that calculates costs using the most efficient technology *actually deployed* in the incumbent carrier's current wire centers: <sup>10</sup>

prices for ... access to unbundled elements would be developed from a forward-looking economic cost methodology based on the most efficient technology deployed in the incumbent LEC's current wire center locations.<sup>11</sup>

The FCC explained its choice of a standard for calculating costs thus:

[t]his benchmark of forward-looking cost and existing network design most closely represents the incremental costs that incumbents actually expect to incur in making network elements available to new entrants ....<sup>12</sup>

This standard is, in fact, close to the economic standard for setting efficient prices. Thus, costs calculated according to the FCC's meaning for TELRIC should reflect the costs that efficiently-functioning ILECs actually expect to incur on a going forward basis. In particular, according to the FCC's implementation of TELRIC, costs for OSS should be based on the technology actually being deployed by BellSouth, not upon technologies that are—or may become—available but are not deployed. From that standpoint, BellSouth's cost study rests on an assumption of a forward-looking network configured with technology actually deployed by BellSouth that is consistent with the FCC's stated TELRIC methodology. As for Mr. Wood's contention that nothing short of a hypothetical network configured with technology that BellSouth may never deploy can induce efficient behavior or produce efficient NRCs, the burden remains on Mr. Wood and ITC^DeltaCom to demonstrate that such a claim is indeed true. That demonstration must, in addition, pay

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<sup>&</sup>lt;sup>9</sup> *Id*.

<sup>&</sup>lt;sup>10</sup> In ¶684 of the Local Competition Order, the FCC considered and rejected embedded costs as another possible measure of cost for a UNE.

<sup>&</sup>lt;sup>11</sup> Local Competition Order, ¶685. Emphasis added.

<sup>&</sup>lt;sup>12</sup> *Id*.

- heed to the FCC's explicit instructions (discussed above) about what to assume in a
- 2 TELRIC-estimation exercise.

#### **Q. MR. WOOD SUGGESTS [AT 10] CALCULATING OSS USE COSTS IN A TOTAL**

#### NETWORK MANAGEMENT-COMPLIANT NETWORK. IS THAT A GOOD

5 IDEA?

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6 A. No, not as stated. Whatever method is used to supply OSS functions in the future, 7 consistency requires that we calculate both OSS development and OSS use costs using the same method. Mr. Wood's suggestion ignores the one-time OSS development costs of 8 9 constructing that platform. In light of the economic trade-off between OSS development 10 costs and OSS use costs, there is danger in such selectivity. As I explained earlier, CLECs 11 and other OSS-requesting carriers exempted from paying for OSS development costs will 12 then have an incentive to demand gold-plated OSS. In the process, those CLECs could end 13 up minimizing their own OSS use costs, without regard to the excessive OSS development 14 cost burden that would be shifted to BellSouth. Once the OSS development costs are taken 15 into account, the total cost of OSS may be greater than it need be and the burden of

#### Q. DO YOU BELIEVE THAT BELLSOUTH HAS ANY INCENTIVE TO USE NRCs FOR OSS TO RAISE BARRIERS TO ENTRY?

recovering it would fall disproportionately on BellSouth because of that shifting of costs.

A. No, it would make little or no economic sense for BellSouth to do so. BellSouth 19 20 Corporation, the Regional Holding Company of which BellSouth is the local 21 telecommunications arm, has a keen economic interest in being able to participate in the interLATA long distance market and to offer competing bundles of local, long distance, 22 23 and other services to its customers. With long distance and other carriers allowed entry 24 into the local exchange market, the borders between local and other markets are being erased. BellSouth Corporation and other Regional Holding Companies can ill afford to 25 ignore this market and competitive reality. Therefore, BellSouth Corporation must do what 26 27 is required of it by the law of the land (specifically, Sections 271—particularly, the "competitive checklist"—and 272 of the 1996 Act) to acquire the right to participate in 28



1	markets from which it is currently barred. As such, a central requirement is that BellSouth
2	provide non-discriminatory access to its network elements (which, according to the FCC,
3	include OSS), databases, and other systems that competitors need to provide
4	telecommunications services. BellSouth must not only provide such access but, once it
5	gains Section 271 approval, must also remain in compliance with the applicable
6	requirements (Section 271(d)(6) of the 1996 Act) in order to keep its authority to offer long
7	distance services. Therefore, any attempt to raise barriers to entry through excessive or
8	unjustified NRCs for OSS would be completely antithetical to BellSouth's and BellSouth
9	Corporation's own long-term economic interests. That is why the following statement by
10	Mr. Wood [at 11] and others like it make absolutely no sense at all:
11 12 13	ILECs such as BellSouth have tremendous incentives to delay the implementation of such systems and to overstate their costs in order to raise the costs of potential competitors. <sup>13</sup>
14	In any event, BellSouth should hardly be expected to provide access to its OSS without
15	being able to recover at least the additional cost that is caused by other carriers requesting
16	such access. For reasons explained earlier, not allowing such recovery would be neither
17	competitively neutral nor economically efficient.
18	IV. PERFORMANCE BENCHMARKS AND PENALTIES
19	Issue 8(f): Should BellSouth be required to compensate ITC^DeltaCom for breach of
20	material terms of the contract?

- 1 2
- Q. WHAT HAS ITC^DELTACOM PROPOSED FOR ENSURING COMPLIANCE BY 21
- BELLSOUTH WITH PERFORMANCE TARGETS EMBODIED IN ITS 22
- INTERCONNECTION AGREEMENT WITH BELLSOUTH? 23
- A. Even though penalties or liquidated damages are not required by the 1996 Act to ensure 24 that an ILEC complies with performance standards, ITC^DeltaCom has proposed a "three-25
- tiered performance guarantee system" that is based on such penalties (Rozycki, at 9; 26

<sup>&</sup>lt;sup>13</sup> Paradoxically, Mr. Wood also recognizes that the opposite is true when he states [at 15, fn. 5]: "Thus, the 1996 Act provides a compensating incentive for BellSouth to open its markets to competition, i.e., in-region, inter-LATA entry."



ITC^DeltaCom Petition, Exhibit A, Attachment 10). This system identifies a set of 45 performance benchmarks, each accompanied by a specific performance guarantee. This set of benchmarks, however, is ITC^DeltaCom's own compilation.

ITC^DeltaCom's proposed performance guarantee system is supposed to work at three levels. At the first level, failure to meet any of the performance benchmarks would, in many instances, trigger refunds by BellSouth of NRCs charged to ITC^DeltaCom. At the second level, as originally proposed, BellSouth's failure to comply with a single performance benchmark for two consecutive months or twice within a quarter would be declared a "Specified Performance Breach" and trigger a payment by BellSouth *directly to ITC^DeltaCom* of \$25,000 per breach. At the third—and most punitive—level, a "Breach of Contract" would be declared upon BellSouth's failure to meet any specific performance benchmark five times within a six-month period. As originally proposed, the penalty for such a breach would be a payment by BellSouth—again, directly to ITC^DeltaCom—of \$100,000 per breach. Although Mr. Rozycki [at 10] appears to modify ITC^DeltaCom's original proposal by offering to have BellSouth pay any tier two or three penalties directly to the State, this offer does not cure the problems with the proposed guarantee measures.

## Q. DO YOU AGREE THAT SUCH A PENALTY-BASED SYSTEM IS NECESSARY TO ENSURE BELLSOUTH'S COMPLIANCE AND TO SECURE COMPETITIVE PARITY?

- A. No. As Mr. Varner's testimony explains, enforcement measures based on penalties or liquidated damages are completely unnecessary and inappropriate. Apart from the fact that legal and other remedies are already available, ITC^DeltaCom's proposed performance guarantee system suffers several important problems.
- Q. PLEASE EXPLAIN WHAT THOSE PROBLEMS ARE WITH THE PROPOSED PERFORMANCE GUARANTEE MEASURES.
- A. Mr. Rozycki attempts [at 10] to justify the penalties involved in the ITC^DeltaComproposed performance guarantee system by pointing to (1) BellSouth's size and relative (current) market position and (2) BellSouth's ability to afford penalty payments of the



magnitude proposed.

There are a number of critical defects in Mr. Rozycki's—and ITC^DeltaCom's—proposal and claims. First, ITC^DeltaCom is unilaterally pushing a set of performance measures that BellSouth may or may not be able to meet and, therefore, may or may not agree to in an explicit interconnection agreement. BellSouth has developed a comprehensive set of service quality measurements ("SQMs") for use in interconnection agreements generally. It is not feasible for BellSouth to design, negotiate, and implement a separate set of SQMs for every CLEC that interconnects with it. With CLECs free to impose their own particular set of performance measures, BellSouth would face the impossible task of trying to meet those varying standards by, in effect, setting performance goals and operating—for purposes of interconnection—like several different carriers.

Second, a fundamental problem with the proposed system of penalties is that is not tied to cost or based on economics, so that BellSouth and ITC^DeltaCom would face distorted incentives to provide quality service on the one hand and to cooperate in jointly provisioning services for customers on the other. The proposed penalties appear to be set at the estimated revenue that would be lost if a customer were lost. But, not every service failure causes the customer to permanently change suppliers and, even if a customer left, the net cost to ITC^DeltaCom would not be lost revenue but lost profit. Moreover, the proposed costly penalties and guarantees would take effect irrespective of whether the fault was BellSouth's, ITC^DeltaCom's, the customer's, or of no one in particular. Even if rewritten to apply only when fault can be unambiguously ascertained, the measures do not compare the service BellSouth supplies other CLECs or its own retail customers with the service it provides ITC^DeltaCom, and the measures do not account for statistical variation in those measures. As a result, BellSouth could expect to pay penalties even when the level of service quality it supplies ITC^DeltaCom is the same as that which it supplies to itself.

Finally, as written, the proposed system of penalties assumes that BellSouth's cost to supply UNEs to ITC^DeltaCom or other CLECs is the same when performance guarantees are established as when they are not. In fact, the TELRIC of supplying UNEs with



- draconian performance guarantees and penalties is different from the TELRIC without such conditions. If ITC^DeltaCom requires a higher grade of service or a higher assurance of service quality than that which BellSouth supplies to its own retail customers or other CLECs, it should be obliged to pay for that difference.
- **Q. DOES THIS CONCLUDE YOUR TESTIMONY?**
- 6 A. Yes.

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n/e/r/a
Consulting Economists

#### **AFFIDAVIT**

STATE OF:

**MASSACHUSETTS** 

COUNTY OF:

**MIDDLESEX** 

BEFORE ME, the undersigned authority, duly commissioned and qualified in and for the State and County aforesaid, personally came and appeared William E. Taylor, Ph.D., Senior Vice President-National Economic Research Associates, Inc., who, being by me first duly sworn deposed and said that:

William E. Taylor

Sworn to and subscribed before me this 1841

day of October, 1999

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